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ABSTRACT

The information in this report was compiled from verifiable minority statistics provided by several four-year institutions. The minorities were all nonwhite students; no attempt was made to disaggregate the minority data into identifiable groups because of the small number of respondents (N=607 out of a total of 2,074). Minority graduates could be working full time, pursuing additional educational goals, or still seeking employment. An "other" category captured those graduates who were foreign students returning to their countries, individuals who were unemployed but not seeking work, and those working part time. Approximately 60 percent of those minorities who responded were employed full time; of these, 81 percent were working in Michigan. The unemployment rate, approximately 3 to 6 months after graduation, for minority graduates was 10 percent; slightly lower than the rate experienced by all graduates in 1987-88. Approximately 12 percent of the respondents were continuing their educational programs. The "other" category represented 18 percent of the respondents. No one factor provided a reason for this high percentage; part-time employment and not seeking work were most frequently cited. The average starting salary was $22,701. A table of average starting salaries and unemployment rates for minority bachelor's graduates, 1987-88, is included as well as data tables on placement results for 1987-88 minority bachelor's graduates of selected Michigan colleges and universities by curriculum areas. (JD)

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Employment Survey of Minority and Teacher Certificate Graduates: Report of Destinations, Average Starting Salaries, and Unemployment, 1987-88

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June, 1990

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Minority Overview

Beginning with the 1987-88 statewide follow-up report, an effort was made to collect data on the employment outcomes of minority graduates. The information in this report was compiled from verifiable minority statistics provided by several four-year institutions.

Minorities in this report represented all non-White students. No attempt was made to disaggregate the minority data into identifiable groups because of the small number of respondents. This report only accounted for 607 graduating minority students, from a total of 2,074, as reported by The Michigan Department of Education.

Minority graduates could be working full-time, pursuing additional educational goals, or still seeking employment. An "other" category captured those graduates who were foreign students returning to their home countries, individuals who were unemployed but not seeking work, and those working part-time.

Full-time employment was separated into those employed in Michigan or employed outside the State.

Highlights:

1. Approximately 60% of those minorities who responded were employed full-time. This figure was 12% lower than the 72% reported for all bachelor's graduates in the 1987-88 statewide follow-up report.

2. Of those working full-time, 81% were working in Michigan. This rate was nearly 10% higher than the in-state employment rate for all graduates of 1987-88. Minorities graduating from engineering and technology programs were more likely to seek employment outside Michigan.

3. The unemployment rate, approximately three to six months after graduation, for minority graduates was 10%; slightly lower than the rate experienced by all graduates in 1987-88. Low rates were experienced in business, computer science, home economics, and letters. Higher, than average, rates were reported in agriculture, communications, education, and foreign languages. Mathematics had an unusually high rate that may reflect a coding error on the submitted forms.

4. Approximately 12% of the respondents were continuing their educational programs. This figure was comparable to the overall bachelor graduate figure.

5. The "other" category represented 18% of the respondents. No one factor provided a reason for this high percentage; though "part-time employment" and "not searching for work" were most frequently cited.

6. The average starting salary was $22,701. The following table summarizes the average starting salaries by major CIP groups. Salaries ranged from $14,000 in Psychology to $28,399 and $31,200 in Engineering and Life Sciences, respectively.

Table 1. Summary of Average Starting Salaries and Unemployment Rates for Minority Bachelor's Graduates, 1987-88

CIP Group	Average Starting Salary $/Year	% Unemployed
Agriculture/Renewable Resources	$23,061	14
Business	22,445	7
Communications	20,805	19
Computer Science	22,545	8
Education	17,969	16
Engineering	28,389	10
Health Science	22,965	12
Home Economics	18,051	4
Industrial Arts	24,996	0
Interdisciplinary Studies	17,652	10
Letters	22,081	4
Life Sciences	31,200	17
Mathematics	22,100	42
Physical Sciences	24,696	11
Psychology	14,002	6
Protective Services & Public Affairs	24,673	15
Social Sciences	19,874	12
Visual & Performing Arts	23,280	11

Placement Results for 1987-88 Bachelor's Graduates of Selected Michigan Colleges and Universities by Curriculum Areas for Minorities

CIP No.	Curriculum Area	Number Responding	Number Employed Full Time	Percent Employed Full Time	Employment Location			Percent Un-Employed	Percent in School	Percent Other	Number Reporting Salaries	Average Yearly Salaries
					Mich	Other	Unknown					
	Agribus/AgriSci/RenewNatRes											
1.0103	Agricultural Economics	9	6	66%	100%	0%	0%	33%	0%	0%	6	$22,848
1.9999	Packaging	13	10	76%	90%	10%	0%	15%	7%	0%	8	$23,736
2.0201	Animal Sciences	2	0	0%	0%	0%	0%	0%	100%	0%	0	$0
2.0301	Food Sciences	2	2	100%	50%	50%	0%	0%	0%	0%	1	$18,000
2.0303	Food Distribution	2	2	100%	0%	100%	0%	0%	0%	0%	0	$0
2.0402	Agronomy	1	0	0%	0%	0%	0%	0%	100%	0%	0	$0
2.0501	Soil Sciences	2	1	50%	100%	0%	0%	0%	50%	0%	0	$0
3.0101	Resource Development	1	0	0%	0%	0%	0%	0%	100%	0%	0	$0
3.0501	Soil Sciences	1	1	100%	100%	0%	0%	0%	0%	0%	1	$24,000
3.0601	Wildlife Management	1	0	0%	0%	0%	0%	0%	100%	0%	0	$0
Totals		34	22	64%	81%	18%	0%	14%	20%	0%	16	$23,061
	Architecture											
4.0301	Land Use Analysis	1	1	100%	100%	0%	0%	0%	0%	0%	0	$0
4.0501	Interior Design	1	1	100%	100%	0%	0%	0%	0%	0%	0	$0
Totals		2	2	100%	100%	0%	0%	0%	0%	0%	0	$0
	Business/Office Marketing											
6.0101	Business and Management, General	18	16	88%	87%	6%	6%	5%	5%	0%	7	$27,293
6.0201	Accounting	42	27	64%	77%	18%	3%	11%	9%	16%	17	$23,975
6.0301	Banking and Finance	37	4	10%	100%	0%	0%	2%	0%	86%	0	$0
6.0401	Business Admin. and Management, Gen	36	27	75%	92%	7%	0%	13%	2%	8%	19	$18,968
6.0402	Material Management and Purchasing	7	7	100%	71%	28%	0%	0%	0%	0%	5	$24,996
6.0701	Institutional Management	2	2	100%	50%	50%	0%	0%	0%	0%	2	$19,248
6.0705	Transportation Management	2	2	100%	100%	0%	0%	0%	0%	0%	0	$0
6.1101	Labor/Industrial Relations	4	4	100%	75%	25%	0%	0%	0%	0%	4	$33,372
6.1401	Marketing Management	13	8	61%	62%	0%	37%	7%	0%	30%	4	$15,875
6.1701	Real Estate	1	0	0%	0%	0%	0%	0%	0%	100%	0	$0
6.9999	Business and Management, Other	1	1	100%	100%	0%	0%	0%	0%	0%	0	$0
7.0401	Office Supervision and Management	2	1	50%	100%	0%	0%	0%	0%	50%	1	$40,000
7.0604	Legal Secretarial	1	0	0%	0%	0%	0%	0%	0%	0%	0	$0
7.0710	Typing	1	1	100%	100%	0%	0%	0%	0%	0%	1	$25,000
8.0102	Fashion Merchandising	7	6	85%	100%	0%	0%	14%	0%	0%	2	$13,750
8.0201	Business Marketing	6	5	83%	80%	20%	0%	0%	16%	0%	5	$21,036
8.0702	Industrial Sales	5	2	40%	50%	50%	0%	20%	0%	40%	1	$28,000
8.0703	Industrial Marketing	3	3	100%	100%	0%	0%	0%	0%	0%	2	$13,000
8.1104	Tourism	1	0	0%	0%	0%	0%	0%	0%	100%	0	$0
8.1201	Vehicles and Petroleum Marketing	1	0	0%	0%	0%	0%	0%	0%	100%	0	$0
Totals		190	116	61%	83%	12%	4%	7%	3%	27%	70	$22,445

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CIP No.	Curriculum Area	Number Responding	Number Employed Full Time	Percent Employed Full Time	Employment Location			Percent Un-Employed	Percent in School	Percent Other	Number Reporting Salaries	Average Yearly Salaries
					Mich	Other	Unknown					
	Communications/Comm Technology											
9.0101	Communications	24	12	50%	83%	16%	0%	25%	16%	8%	8	$20,349
9.0201	Advertising	8	8	100%	62%	37%	0%	0%	0%	0%	4	$22,500
9.0401	Journalism (Mass Communication)	3	2	66%	100%	0%	0%	33%	0%	0%	1	$18,000
9.0701	Telecommunications	8	6	75%	100%	0%	0%	25%	0%	0%	2	$29,748
10.0104	Radio/TV Production	3	3	100%	66%	33%	0%	0%	0%	0%	3	$14,733
Totals		46	31	67%	80%	19%	0%	19%	8%	4%	18	$20,805
	Computer Science											
11.0101	Computer and Information Science	38	22	57%	86%	13%	0%	5%	10%	26%	17	$22,327
11.0401	Information Sciences	9	4	44%	50%	50%	0%	22%	33%	11%	2	$24,400
Totals		47	26	55%	80%	19%	0%	8%	14%	23%	19	$22,545
	Education											
13.0101	Education, General	1	1	100%	100%	0%	0%	0%	0%	0%	0	$0
13.0405	Elem. and Sec. Education Admin.	1	1	100%	100%	0%	0%	0%	0%	0%	0	$0
13.1001	Special Education, General	2	1	50%	100%	0%	0%	0%	50%	0%	0	$0
13.1003	Education of the Deaf	1	0	0%	0%	0%	0%	100%	0%	0%	0	$0
13.1005	Educ. of Emotionally Handicapped	3	3	100%	100%	0%	0%	0%	0%	0%	3	$17,000
13.1006	Education of Mentally Handicapped	2	2	100%	100%	0%	0%	0%	0%	0%	2	$15,000
13.1009	Education of Visually Handicapped	1	1	100%	100%	0%	0%	0%	0%	0%	0	$0
13.1101	Student Counseling & Personnel Serv.	1	0	0%	0%	0%	0%	100%	0%	0%	0	$0
13.1202	Elementary Education	16	8	50%	100%	0%	0%	25%	18%	6%	6	$20,017
13.1204	Pre-Elementary Education	2	2	100%	100%	0%	0%	0%	0%	0%	1	$15,000
13.1302	Art Education	1	0	0%	0%	0%	0%	0%	0%	100%	0	$0
13.1303	Business Education	1	1	100%	0%	100%	0%	0%	0%	0%	1	$16,000
13.1306	Foreign Language Education	1	1	100%	100%	0%	0%	0%	0%	0%	1	$17,000
13.1307	Health Education	3	2	66%	50%	50%	0%	33%	0%	0%	1	$20,004
13.1309	Industrial Arts Education	2	1	50%	100%	0%	0%	0%	0%	50%	1	$21,000
13.1312	Music Education	4	4	100%	100%	0%	0%	0%	0%	0%	1	$7,300
13.1314	Physical Education	3	2	66%	100%	0%	0%	33%	0%	0%	0	$0
13.1316	Science Education	1	1	100%	100%	0%	0%	0%	0%	0%	1	$29,000
13.1317	Social Science Education	3	3	100%	100%	0%	0%	0%	0%	0%	1	$15,000
Totals		49	34	69%	94%	5%	0%	16%	8%	6%	19	$17,969
	Engineering/Related Technology											
14.0101	Engineering, General	11	8	72%	87%	12%	0%	18%	9%	0%	6	$29,628
14.0701	Chemical Engineering	1	0	0%	0%	0%	0%	100%	0%	0%	0	$0
14.0801	Civil Engineering	1	1	100%	100%	0%	0%	0%	0%	0%	0	$0
14.0901	Computer Engineering	6	5	83%	100%	0%	0%	16%	0%	0%	4	$28,644
14.1001	Electrical/Electronics/Comm.	14	10	71%	80%	20%	0%	7%	0%	21%	10	$30,847

Placement Results for 1987-88 Bachelor's Graduates of Selected Michigan Colleges and Universities by Curriculum Areas for Minorities

CIP No.	Curriculum Area	Number Responding	Number Employed Full Time	Percent Employed Full Time	Employment Location			Percent Un-Employed	Percent in School	Percent Other	Number Reporting Salaries	Average Yearly Salaries
					Mich	Other	Unknown					
	Engineering/Related Technology (Cont.)											
14.1701	Industrial Engineering	3	0	0%	0%	0%	0%	0%	0%	100%	0	$0
14.1801	Materials Engineering	2	1	50%	100%	0%	0%	0%	50%	0%	1	$28,800
14.1901	Mechanical Engineering	6	4	66%	100%	0%	0%	0%	0%	33%	3	$30,900
14.2001	Metallurgical Engineering	1	0	0%	0%	0%	0%	0%	0%	100%	0	$0
14.9999	Engineering, Other	2	1	50%	100%	0%	0%	0%	0%	50%	0	$0
15.0000	Engineering & Related Technologies	4	4	100%	0%	100%	0%	0%	0%	0%	0	$0
15.0101	Architectural Design Technology	1	1	100%	0%	100%	0%	0%	0%	0%	1	$21,000
15.0399	Electrical/Electronic Techn, Other	2	0	0%	0%	0%	0%	0%	100%	0%	0	$0
15.0503	Energy Management Technology	2	2	100%	100%	0%	0%	0%	0%	0%	2	$21,000
15.0603	Industrial Technology	2	2	100%	100%	0%	0%	0%	0%	0%	2	$29,000
15.0604	Manufacturing Technology	5	2	40%	50%	50%	0%	20%	20%	20%	1	$31,512
15.0801	Aeronautical Technology	2	1	50%	0%	0%	100%	0%	0%	50%	0	$0
15.0803	Automotive Technology	1	1	100%	100%	0%	0%	0%	0%	0%	0	$0
15.0805	Mechanical Design Technology	4	3	75%	66%	33%	0%	25%	0%	0%	3	$20,667
Totals		70	46	65%	76%	21%	2%	10%	7%	17%	33	$28,389
	Foreign Language											
16.0401	Baltic Languages	1	0	0%	0%	0%	0%	0%	0%	100%	0	$0
16.0402	Russian	1	0	0%	0%	0%	0%	0%	100%	0%	0	$0
16.0901	French	1	1	100%	100%	0%	0%	0%	0%	0%	0	$0
16.0905	Spanish	2	0	0%	0%	0%	0%	50%	50%	0%	0	$0
16.9999	Language and International Trade	1	0	0%	0%	0%	0%	0%	0%	0%	0	$0
Totals		6	1	16%	100%	0%	0%	16%	33%	16%	0	$0
	Health Science											
17.0201	Cardiopulmonary Technology	1	1	100%	100%	0%	0%	0%	0%	0%	1	$17,496
17.0209	Radiograph Medical Technology	1	1	100%	100%	0%	0%	0%	0%	0%	0	$0
17.0210	Respiratory Therapy Technology	3	3	100%	100%	0%	0%	0%	0%	0%	1	$17,496
17.0212	Ultrasound Technology	1	1	100%	100%	0%	0%	0%	0%	0%	1	$22,500
17.0310	Medical Technology	6	2	33%	50%	50%	0%	33%	33%	0%	0	$0
17.0807	Occupational Therapy	3	2	66%	100%	0%	0%	0%	0%	33%	2	$24,500
18.0199	Audiology/Speech Pathology (Other)	1	0	0%	0%	0%	0%	0%	100%	0%	0	$0
18.0701	Health Care Adminstration	3	2	66%	100%	0%	0%	33%	0%	0%	2	$16,250
18.1101	Nursing, General	14	11	78%	100%	0%	0%	7%	7%	7%	11	$24,944
Totals		33	23	69%	95%	4%	0%	12%	12%	6%	18	$22,965
	Home Economics/Vocational											
19.0301	Family and Community Services	1	0	0%	0%	0%	0%	0%	100%	0%	0	$0
19.0501	Food Science and Human Nutrition	1	1	100%	100%	0%	0%	0%	0%	0%	0	$0
19.0503	Dietetics/Human Nutrition Services	3	3	100%	100%	0%	0%	0%	0%	0%	2	$18,000

Placement Results for 1987-88 Bachelor's Graduates of Selected Michigan Colleges and Universities by Curriculum Areas for Minorities

CIP No.	Curriculum Area	Number Responding	Number Employed Full Time	Percent Employed Full Time	Employment Location			Percent Un-Employed	Percent in School	Percent Other	Number Reporting Salaries	Average Yearly Salaries
					Mich	Other	Unknown					
	Home Economics/Vocational (Cont.)											
19.0601	Human Environment and Housing	1	1	100%	100%	0%	0%	0%	0%	0%	1	$20,712
19.0701	Individual and Family Developement	1	1	100%	100%	0%	0%	0%	0%	0%	0	$0
19.0901	Textiles and Clothing	2	2	100%	100%	0%	0%	0%	0%	0%	1	$17,496
19.0903	Textiles and Clothing, Retail	10	8	80%	75%	25%	0%	10%	10%	50%	5	$16,980
20.0102	Child Development, Care & Guidance	5	5	100%	100%	0%	0%	0%	0%	0%	4	$18,888
Totals		24	21	87%	90%	9%	0%	4%	8%	20%	13	$18,051
	Industrial Arts											
21.0102	Construction	4	1	25%	100%	0%	0%	0%	0%	75%	1	$24,996
21.0103	Drafting and Design	2	1	50%	100%	0%	0%	0%	0%	50%	0	$0
21.0105	Energy, Power & Transportation	1	0	0%	0%	0%	0%	0%	0%	100%	0	$0
21.0199	Industrial Arts (Other)	8	0	0%	0%	0%	0%	0%	0%	100%	0	$0
Totals		15	2	13%	100%	0%	0%	0%	0%	86%	1	$24,996
	Law											
22.0102	Pre-Law	3	0	0%	0%	0%	0%	0%	100%	0%	0	$0
Totals		3	0	0%	0%	0%	0%	0%	100%	0%	0	$0
	Letters											
23.0000	Letters	2	2	100%	100%	0%	0%	0%	0%	0%	0	$0
23.0101	English, General	17	11	64%	100%	0%	0%	5%	11%	17%	5	$21,358
23.0401	Composition	1	1	100%	0%	100%	0%	0%	0%	0%	0	$0
23.1001	Speech, Debate, Forensics	3	3	100%	100%	0%	0%	0%	0%	0%	2	$23,891
Totals		23	17	73%	94%	5%	0%	4%	8%	13%	7	$22,081
	Liberal Studies											
24.0101	Liberal/General Studies	10	2	20%	100%	0%	0%	0%	70%	10%	0	$0
Totals		10	2	20%	100%	0%	0%	0%	70%	10%	0	$0
	Life Sciences											
26.0101	Biology, General	10	3	30%	100%	0%	0%	20%	50%	0%	1	$30,000
26.0201	Biochemistry and Biophysics	2	1	50%	0%	100%	0%	0%	50%	0%	1	$32,400
26.0501	Microbiology	2	0	0%	0%	0%	0%	50%	100%	0%	0	$0
26.0706	Physiology	3	0	0%	0%	0%	0%	0%	66%	33%	0	$0
Totals		17	4	23%	75%	25%	0%	17%	58%	5%	2	$31,200

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CIP No.	Curriculum Area	Number Responding	Number Employed Full Time	Percent Employed Full Time	Employment Location			Percent Un-Employed	Percent in School	Percent Other	Number Reporting Salaries	Average Yearly Salaries
					Mich	Other	Unknown					
	Mathematics											
27.0101	Mathematics	11	3	27%	66%	33%	0%	54%	27%	9%	2	$23,784
27.0501	Statistics	1	0	0%	0%	0%	0%	0%	0%	100%	0	$0
27.9999	Math (Other)	2	1	50%	100%	0%	0%	0%	50%	0%	1	$18,732
Totals		14	4	28%	75%	25%	0%	42%	28%	14%	3	$22,100
	Interdisciplinary Studies											
30.0101	Biological and Physical Sciences	2	1	50%	0%	0%	100%	50%	0%	0%	1	$15,500
30.0401	Humanities and Social Science	8	5	62%	80%	20%	0%	0%	25%	12%	1	$20,004
Totals		10	6	60%	66%	16%	16%	10%	20%	10%	2	$17,752
	Parks and Recreation											
31.0101	Parks and Recreation, General	1	0	0%	0%	0%	0%	0%	0%	0%	0	$0
31.0301	Parks and Recreation Management	1	1	100%	100%	0%	0%	0%	0%	0%	0	$0
Totals		2	1	50%	100%	0%	0%	0%	0%	0%	0	$0
	Health-Related Activities											
34.0103	Health Related, General	2	2	100%	50%	50%	0%	0%	0%	0%	0	$0
Totals		2	2	100%	50%	50%	0%	0%	0%	0%	0	$0
	Philosophy, Religion and Theology											
38.0101	Philosophy	1	0	0%	0%	0%	0%	0%	0%	100%	0	$0
Totals		1	0	0%	0%	0%	0%	0%	0%	100%	0	$0
	Physical Sciences											
40.0501	Chemistry	5	3	60%	100%	0%	0%	20%	40%	0%	2	$24,696
40.0703	Earth Science	1	1	100%	100%	0%	0%	0%	0%	0%	0	$0
40.0801	Physics, General	3	0	0%	0%	0%	0%	0%	33%	66%	0	$0
Totals		9	4	44%	100%	0%	0%	11%	33%	22%	2	$24,696
	Psychology											
42.0101	Psychology, General	16	7	43%	57%	42%	0%	6%	43%	0%	4	$14,002
Totals		16	7	43%	57%	42%	0%	6%	43%	0%	4	$14,002

Placement Results for 1987-88 Bachelor's Graduates of Selected Michigan Colleges and Universities by Curriculum Areas for Minorities

CIP No.	Curriculum Area	Number Responding	Number Employed Full Time	Percent Employed Full Time	Employment Location			Percent Un-Employed	Percent in School	Percent Other	Number Reporting Salaries	Average Yearly Salaries
					Mich	Other	Unknown					
	Protective Services and Public Affairs											
43.0101	Correctional Adminstration	9	7	77%	85%	14%	0%	22%	0%	0%	6	$32,538
43.0104	Criminal Justice Studies	2	2	100%	100%	0%	0%	0%	0%	0%	0	$0
43.0199	Criminal Justice, Other	5	4	80%	75%	0%	25%	20%	0%	0%	0	$0
44.0101	Public Affairs	1	0	0%	0%	0%	0%	100%	0%	0%	0	$0
44.0401	Public Administration	6	5	83%	80%	20%	0%	0%	16%	0%	2	$15,295
44.0701	Social Work, General	21	9	42%	88%	11%	0%	14%	33%	9%	7	$20,610
Totals		44	27	61%	85%	11%	3%	15%	18%	4%	15	$24,673
	Social Sciences											
45.0101	Social Science	8	7	87%	71%	28%	0%	0%	12%	0%	6	$19,302
45.0201	Anthropology	2	1	50%	100%	0%	0%	0%	50%	0%	0	$0
45.0401	Criminology	6	5	83%	100%	0%	0%	16%	0%	0%	5	$22,240
45.0601	Economics	6	1	16%	100%	0%	0%	16%	16%	50%	1	$18,600
45.0801	History	2	0	0%	0%	0%	0%	0%	0%	100%	0	$0
45.1001	Political Science and Government	8	2	25%	100%	0%	0%	25%	37%	12%	2	$17,500
45.1101	Sociology	8	2	25%	100%	0%	0%	12%	50%	12%	1	$17,496
Totals		40	18	45%	88%	11%	0%	12%	25%	17%	15	$19,874
	Visual and Performing Art											
50.0000	Visual and Performing Arts	2	0	0%	0%	0%	0%	0%	0%	100%	0	$0
50.0404	Industrial Design	1	1	100%	100%	0%	0%	0%	0%	0%	0	$0
50.0501	Dramatic Arts	4	3	75%	100%	0%	0%	25%	0%	0%	2	$22,700
50.0701	Fine Arts, General	10	6	60%	83%	16%	0%	10%	0%	30%	3	$23,667
50.0901	Music, General	1	0	0%	0%	0%	0%	100%	0%	0%	0	$0
50.0903	Applied Music	4	2	50%	100%	0%	0%	50%	0%	0%	0	$0
Totals		22	12	54%	91%	8%	0%	22%	0%	22%	5	$23,280
Grand	Totals	729	428	58%	84%	13%	1%	11%	13%	17%	262	$22,531

Teacher Overview

The information in this report was compiled using statistics received from public and independent colleges and universities that offer teacher education programs in Michigan. This is the first year that separate information on teacher education graduates was requested. These data captured the initial career outcome of those bachelor's degree graduates who received teaching certificates in 1987-88.

Graduates with teaching certificates could be working full-time, pursuing additional educational goals, or still seeking employment. An "other" category identifies those graduates who were foreign students returning to their home countries, individuals who are unemployed but not seeking work, and those working part-time.

Full-time employment was categorized into those employed in Michigan and those employed outside the State. This distinction was made in order to track the first destination of newly trained teachers.

Highlights:

1. Approximately 60% of the individuals who responded were employed full-time. This figure was lower by 12% than the 72% reported as employed full-time in the 1987-88 follow-up report for all bachelor's graduates.

2. Of those working full-time, 87% were working in Michigan. This rate was nearly 15% higher than the in-state employment rate for all bachelor's degree graduates in that year. This evidence suggests that teaching graduates desire to stay in Michigan to pursue their career goals, even when faced with a tight job market.

3. The unemployment rate, at three to six months after graduation, was 14%, slightly higher than the overall bachelor's rate of 11%. High unemployment rates were experienced in communications, elementary education, mathematics education, technical education and physical science education.

4. Approximately 8% of the respondents reported they were continuing their education.

5. The 17% classified as "other" was noticeably higher than the 5% for all bachelor's degree graduates. The majority of graduates in this group were working part-time, usually in substitute teaching positions.

6. Average starting salary was $18,076. Salaries reported for teachers of the physically handicapped (CIP 13.1008) and visually impaired (CIP 13.1009) were particularly low. A check of the reported data failed to verify the reason, other than these graduates were working part-time. These figures were included for completeness, but should not be taken as representative of salaries offered in these fields.

7. Starting salary figures aggregated both public and private educational system data since the destinations of graduates could not be documented. Private system salaries are generally lower than public salaries. The averages do not necessarily reflect the salaries offered in separate systems.

This information has several shortcomings. First, teaching certificated graduates who are not working in education have not been separated from those who are teaching. Second, a distinction could not be made for teachers entering public or private educational systems. Third, numbers were not available to determine response rates for individual CIP categories. These problems have been addressed for the 1988-89 follow-up reporting period.

Table 2. Summary of Starting Salaries and Unemployment Rates for Teacher Certificate Graduates, 1987-88

CIP Group	Average Starting Salary $/Year	% Unemployed
Agriculture	23,100	0
Business	17,194	0
Communications	20,565	27
Education	18,024	15
Foreign Language	13,506	5
Home Economics	18,183	10
Letters	19,385	19
Life Sciences	19,871	6
Mathematics	18,194	10
Interdisciplinary Studies	16,812	12
Leisure & Recreation	13,992	0
Physical Sciences	14,126	17
Social Sciences	15,897	16
Visual & Performing Arts	15,526	5

Placement Results for 1987-88 Bachelor's Graduates of Selected Michigan Colleges and Universities by Curriculum Areas for Teachers

CIP No.	Curriculum Area	Number Responding	Number Employed Full Time	Percent Employed Full Time	Employment Location			Percent Un-Employed	Percent in School	Percent Other	Number Reporting Salaries	Average Yearly Salaries
					Mich	Other	Unknown					
	Agribus/AgriSci/RenewNatRes											
1.9999	Agriculture, General	3	3	100%	100%	0%	0%	0%	0%	0%	2	$23,100
Totals		3	3	100%	100%	0%	0%	0%	0%	0%	2	$23,100
	Business/Office Marketing											
6.0101	Business and Management, General	2	2	100%	50%	50%	0%	0%	0%	0%	2	$14,004
6.0401	Business Admin. and Management, Gen	9	7	77%	71%	28%	0%	0%	0%	22%	3	$19,320
Totals		11	9	81%	66%	33%	0%	0%	0%	18%	5	$17,194
	Communications/Comm Technology											
9.0101	Communications	9	5	55%	100%	0%	0%	33%	0%	11%	2	$21,848
9.0401	Journalism (Mass Communication)	2	2	100%	100%	0%	0%	0%	0%	0%	1	$18,000
Totals		11	7	63%	100%	0%	0%	27%	0%	9%	3	$20,565
	Computer Science											
11.0101	Computer and Information Science	1	0	0%	0%	0%	0%	0%	100%	0%	0	$0
Totals		1	0	0%	0%	0%	0%	0%	100%	0%	0	$0
	Education											
13.0101	Education, General	1	1	100%	100%	0%	0%	0%	0%	0%	0	$0
13.0301	Curriculum and Instruction	1	1	100%	0%	100%	0%	0%	0%	0%	0	$0
13.1001	Special Education, General	23	18	78%	100%	0%	0%	13%	8%	0%	13	$18,564
13.1003	Education of the Deaf	11	5	45%	80%	20%	0%	9%	9%	36%	3	$19,450
13.1005	Educ. of Emotionally Handicapped	63	55	87%	94%	5%	0%	6%	3%	3%	38	$19,570
13.1006	Education of Mentally Handicapped	67	50	74%	84%	12%	4%	7%	7%	11%	35	$17,796
13.1008	Education, Physically Handicapped	14	11	78%	63%	27%	9%	7%	7%	7%	7	$7,511
13.1009	Education of Visually Handicapped	10	9	90%	66%	33%	0%	10%	0%	0%	4	$4,069
13.1012	Speech Correction	10	10	100%	70%	20%	10%	0%	0%	0%	4	$23,003
13.1202	Elementary Education	503	289	57%	89%	7%	2%	22%	7%	13%	169	$18,179
13.1204	Pre-Elementary Education	35	22	62%	86%	13%	0%	2%	8%	5%	9	$14,906
13.1301	Agricultural Education	1	0	0%	0%	0%	0%	100%	0%	0%	0	$0
13.1302	Art Education	27	7	25%	85%	14%	0%	7%	25%	40%	5	$12,200
13.1303	Business Education	51	25	49%	80%	20%	0%	15%	7%	29%	24	$20,454
13.1305	English Education	24	13	54%	84%	15%	0%	12%	12%	25%	8	$13,035
13.1306	Foreign Language Education	9	5	55%	40%	60%	0%	11%	11%	22%	1	$17,000
13.1307	Health Education	26	18	69%	77%	22%	0%	11%	7%	11%	13	$22,735
13.1308	Home Economics Education	11	7	63%	85%	14%	0%	18%	18%	0%	6	$18,100
13.1309	Industrial Arts Education	20	17	85%	94%	0%	5%	0%	5%	10%	12	$18,932
13.1310	Marketing & Distributive Education	2	2	100%	50%	50%	0%	0%	0%	0%	2	$22,000

Placement Results for 1987-88 Bachelor's Graduates of Selected Michigan Colleges and Universities by Curriculum Areas for Teachers

CIP No.	Curriculum Area	Number Responding	Number Employed Full Time	Percent Employed Full Time	Employment Location			Percent Un-Employed	Percent in School	Percent Other	Number Reporting Salaries	Average Yearly Salaries
					Mich	Other	Unknown					
	Education (Cont.)											
13.1311	Mathematics Education	13	6	46%	66%	16%	16%	30%	7%	15%	13	$22,369
13.1312	Music Education	54	39	72%	94%	5%	0%	1%	11%	11%	19	$13,764
13.1314	Physical Education	78	52	66%	88%	9%	1%	8%	8%	15%	26	$14,118
13.1316	Science Education	56	30	53%	83%	16%	0%	8%	1%	35%	33	$20,352
13.1317	Social Science Education	54	27	50%	88%	11%	0%	16%	18%	24%	19	$16,615
13.1318	Social Studies Education	3	3	100%	66%	33%	0%	0%	0%	0%	0	$0
13.1319	Technical Education	20	11	55%	90%	9%	0%	35%	5%	5%	11	$23,415
13.1320	Trade & Industrial Education	1	1	100%	100%	0%	0%	0%	0%	0%	0	$0
13.1399	Teacher Education/Specific Subject	47	24	51%	100%	0%	0%	6%	6%	36%	15	$17,825
Totals		1235	758	61%	87%	10%	1%	15%	8%	15%	489	$18,024
	Foreign Language											
16.0100	Foreign Languages, Multiple Emphasis	1	1	100%	100%	0%	0%	0%	0%	0%	1	$18,996
16.0501	German	5	1	20%	100%	0%	0%	0%	40%	40%	1	$17,148
16.0901	French	4	3	75%	100%	0%	0%	0%	0%	25%	2	$9,702
16.0905	Spanish	8	6	75%	83%	16%	0%	12%	12%	0%	4	$13,126
Totals		18	11	61%	90%	9%	0%	5%	16%	16%	8	$13,506
	Health Science											
18.0199	Audiology/Speech Pathology (Other)	8	1	12%	100%	0%	0%	0%	87%	0%	0	$0
Totals		8	1	12%	100%	0%	0%	0%	87%	0%	0	$0
	Home Economics/Vocational											
19.0101	Home Economics	5	4	80%	75%	25%	0%	0%	0%	20%	2	$19,500
19.0701	Individual and Family Development	3	0	0%	0%	0%	0%	0%	66%	33%	0	$0
20.0102	Child Development, Care & Guidance	84	59	70%	88%	11%	0%	11%	3%	14%	31	$18,098
Totals		92	63	68%	87%	12%	0%	10%	5%	15%	33	$18,183
	Industrial Arts											
21.0199	Industrial Arts (Other)	1	1	100%	100%	0%	0%	0%	0%	0%	0	$0
Totals		1	1	100%	100%	0%	0%	0%	0%	0%	0	$0
	Law											
22.0101	Law	1	0	0%	0%	0%	0%	0%	0%	100%	0	$0
Totals		1	0	0%	0%	0%	0%	0%	0%	100%	0	$0

Placement Results for 1987-88 Bachelor's Graduates of Selected Michigan Colleges and Universities by Curriculum Areas for Teachers

CIP No.	Curriculum Area	Number Responding	Number Employed Full Time	Percent Employed Full Time	Employment Location			Percent Un-Employed	Percent in School	Percent Other	Number Reporting Salaries	Average Yearly Salaries
					Mich	Other	Unknown					
	Letters											
23.0101	English, General	135	70	51%	90%	8%	1%	20%	7%	20%	41	$19,409
23.0801	Literature, English	3	1	33%	100%	0%	0%	0%	33%	33%	0	$0
23.1001	Speech, Debate, Forensics	3	1	33%	100%	0%	0%	0%	0%	66%	1	$18,396
Totals		141	72	51%	90%	8%	1%	19%	7%	21%	42	$19,385
	Life Sciences											
26.0101	Biology, General	80	48	60%	75%	20%	4%	6%	10%	25%	28	$19,423
26.0201	Biochemistry and Biophysics	1	1	100%	0%	100%	0%	0%	0%	0%	1	$32,400
Totals		81	49	60%	73%	22%	4%	6%	9%	24%	29	$19,871
	Mathematics											
27.0101	Mathematics	80	53	66%	84%	15%	0%	10%	1%	22%	27	$18,194
Totals		80	53	66%	84%	15%	0%	10%	1%	22%	27	$18,194
	Interdisciplinary Studies											
30.0401	Humanities and Social Science	25	10	40%	90%	10%	0%	12%	0%	48%	4	$16,812
Totals		25	10	40%	90%	10%	0%	12%	0%	48%	4	$16,812
	Leisure and Recreational Activities											
36.0108	Sports/Physical Education	1	1	100%	100%	0%	0%	0%	0%	0%	1	$13,992
Totals		1	1	100%	100%	0%	0%	0%	0%	0%	1	$13,992
	Physical Sciences											
40.0101	Physical Science, General	4	0	0%	0%	0%	0%	75%	25%	0%	0	$0
40.0501	Chemistry	9	9	100%	100%	0%	0%	0%	0%	0%	5	$12,341
40.0703	Earth Science	19	12	63%	83%	16%	0%	10%	5%	21%	8	$14,309
40.0801	Physics, General	1	1	100%	100%	0%	0%	0%	0%	0%	0	$0
40.9999	Physical Sciences, Other	2	1	50%	100%	0%	0%	50%	0%	0%	1	$21,588
Totals		35	23	65%	91%	8%	0%	17%	5%	11%	14	$14,126
	Psychology											
42.0101	Psychology, General	11	6	54%	83%	16%	0%	9%	0%	36%	0	$0
Totals		11	6	54%	83%	16%	0%	9%	0%	36%	0	$0

Placement Results for 1987-88 Bachelor's Graduates of Selected Michigan Colleges and Universities by Curriculum Areas for Teachers

CIP No.	Curriculum Area	Number Responding	Number Employed Full Time	Percent Employed Full Time	Employment Location			Percent Un-Employed	Percent in School	Percent Other	Number Reporting Salaries	Average Yearly Salaries
					Mich	Other	Unknown					
	Social Sciences											
45.0101	Social Science	50	36	72%	86%	13%	0%	8%	10%	12%	16	$13,086
45.0701	Geography	4	2	50%	50%	50%	0%	0%	25%	25%	0	$0
45.0801	History	65	34	52%	94%	2%	2%	26%	6%	15%	19	$17,276
45.1001	Political Science and Government	9	5	55%	80%	20%	0%	0%	11%	33%	4	$19,841
45.1101	Sociology	2	1	50%	100%	0%	0%	50%	0%	0%	1	$18,876
Totals		130	78	60%	88%	10%	1%	16%	8%	15%	40	$15,897
	Visual and Performing Art											
50.0501	Dramatic Arts	1	1	100%	100%	0%	0%	0%	0%	0%	1	$18,000
50.0701	Fine Arts, General	6	5	83%	100%	0%	0%	16%	0%	0%	1	$18,696
50.0707	Art	4	3	75%	66%	33%	0%	0%	0%	25%	1	$17,064
50.0901	Music, General	5	4	80%	75%	25%	0%	0%	0%	20%	3	$14,092
50.0903	Applied Music	2	1	50%	0%	100%	0%	0%	50%	0%	1	$12,996
Totals		18	14	77%	78%	21%	0%	5%	5%	11%	7	$15,576
Grand Totals		1911	1160	60%	87%	11%	1%	14%	8%	16%	704	$17,928

The Collegiate Employment Research Institute was established by Michigan's Legislature in 1984. The Institute is charged with the task of examining issues on career development and employment for college graduates. Various projects are underway, including the study covered in this report, to provide information to educators and counselors for program development. If you have any questions on this study or any Institute project, please contact the Institute directly.

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